

PHENIX WEEKLY PLANNING



2/12/2009

Don Lynch

Run Support & Other Ongoing Work

Run Technical Support (mechanical, electrical and gas systems)

As needed → always takes priority

RPC Factory Support (continuing)

(see slides later)

Prep for 2009 Shutdown

Design PC1 East maintenance support fixtures
design 3/31, fabrication 5/31

NCC prototype design support (on-going lower priority)

VTX fabrication tooling design (on-going lower priority)

VTX installation design (on-going lower priority)

FVTX design/eng'g support (no support requested yet)

MMS Scaffolding Design

design 2/27, ordering/fabrication 5/1

New Beampipe supports (back logged)

RPC3 North installation Prep

Installation plan (including installation site prep plan)
2/27

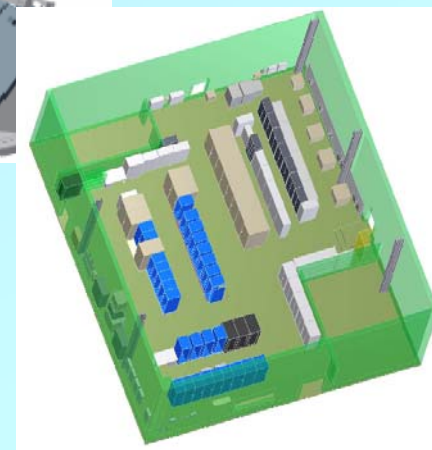
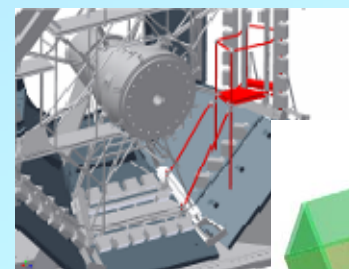
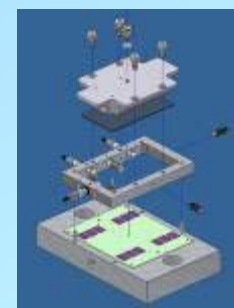
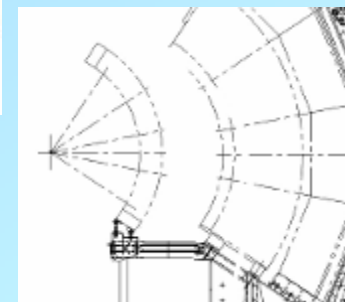
Installation fixture design 4/3

Installation fixture fabrication 6/26

Maintenance & Overhead Tasks

Procedure Review/Updates (ongoing)

Rack Room, AH, Trailer, Mixing House, etc. (ongoing)



PHENIX Tech Assignments During Run 9

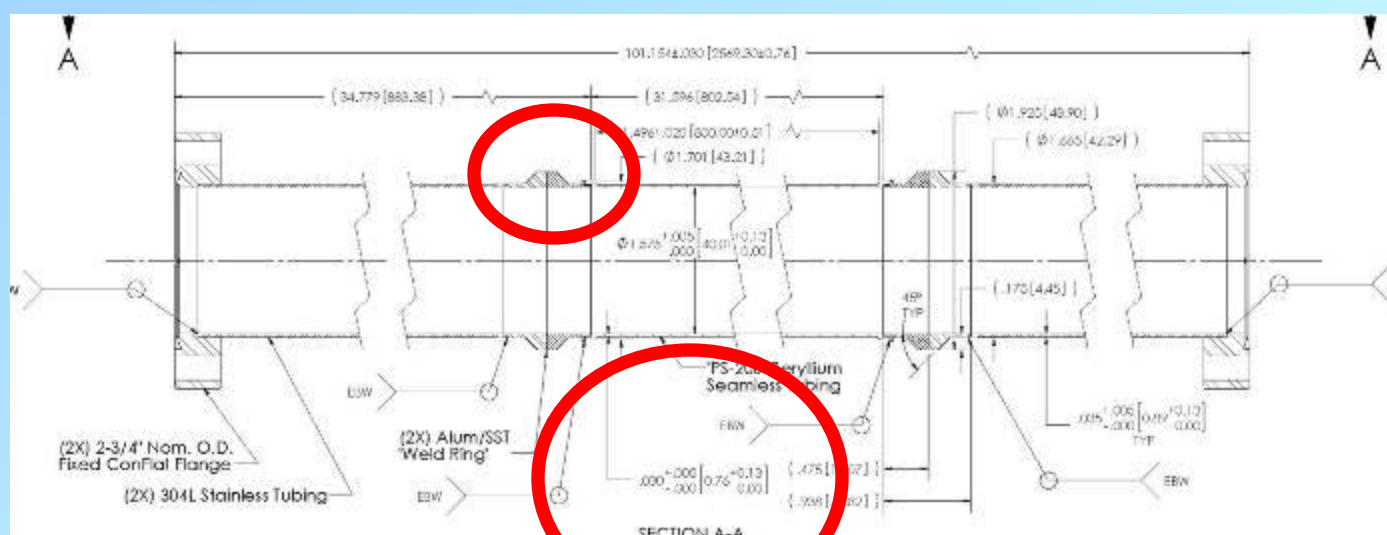
Carter Biggs:	Overall Tech Supervision, resource allocation RPC Installation design support
Kenny Jones:	RPC Factory Mechanical support RPC burn-in test stand design support RPC assembly/transport table design support
Mike Lenz:	New subsystem mechanical support (510) HBD mechanical support
Jim LaBounty:	IR Mechanical support for all subsystems, MMS Scaffolding design support, PC1 East repair tooling design support
Sal Pollizzo:	New Subsystems electronics support Existing subsystem electronics support
Frank Toldo:	IR Electrical support for all subsystems RPC Factory Electrical support
John Tradeski:	PHENIX Gas System support, RPC Gas system support

2009 Building Maintenance Issues

- Roof leak in utility bathroom at northwest corner behind tech offices.
- Roof leak over door between rack room and assembly hall.
- Trailer bathroom slop sink (for Custodians).
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- New duct heater (This item is in progress and should be completed soon)
- Improved Rack Room AC performance (This item has been addressed time and again but unsatisfactorily. Currently the AC fails periodically and is repaired only to fail again. On-condition maintenance is not adequate...an engineered solution is needed.)



SCD



RPC Factory Change in Scope

Minutes & Action Items:

- Review the mechanical design of the burn-in assembly and the dolly system to be used in moving the $\frac{1}{2}$ octant units. *Design In Progress, Review to follow*
- Update the RPC work plan accordingly (Lynch, Jan 30, 2009) *Done*
- Update the RPC high voltage and gas procedures if necessary (Giannotti, Pisani Jan 30, 2009) *In progress*
- Add individual output valves to the burn-in unit gas schematics (Pisani, Jan 30, 2009) *In progress*
- Get a permit for the R134 added consumption (Pisani, Van Essendelft, Jan 30, 2009) *In Progress*
- Review the flammable compressed gas system piping (Gaffney, Pisani Jan 30, 2009) *To Be Scheduled*
- Clean up the signal cable bundle and assure that the HV cables are in separate trays. (Giannotti Jan 30, 2009) *Done*
- For the burn-in unit, use non-flammable welding curtains (Lynch Jan 30, 2009) *Done*

RPC Factory Support Tasks:

- Complete the Dark Current Test Stand (2/13)
- Order materials for Burn-in Test Stand (2/13)
- Complete design of Tilting Transport Table (2/13)
- Order materials for the Tilting Transport Table (2/13)
- Order additional shelf units for gap, module and RPC structural component storage (2/13)
- Design and order environmental control system for Burn-In Test Stand (2/27)
- Assemble gap & module storage with humidity control existing shelves (2/20), full complement of shelves (3/13)
- Extend N2 supply to storage shelves (2/20)
- Assemble structural component storage existing shelves (2/20), full complement of shelves (3/13)
- Assemble tilting transport table 3/6
- Assemble burn-in test stand (bike rack) 3/27
- Extend gas, electric and safety systems to Burn-In Test Stand (4/3)

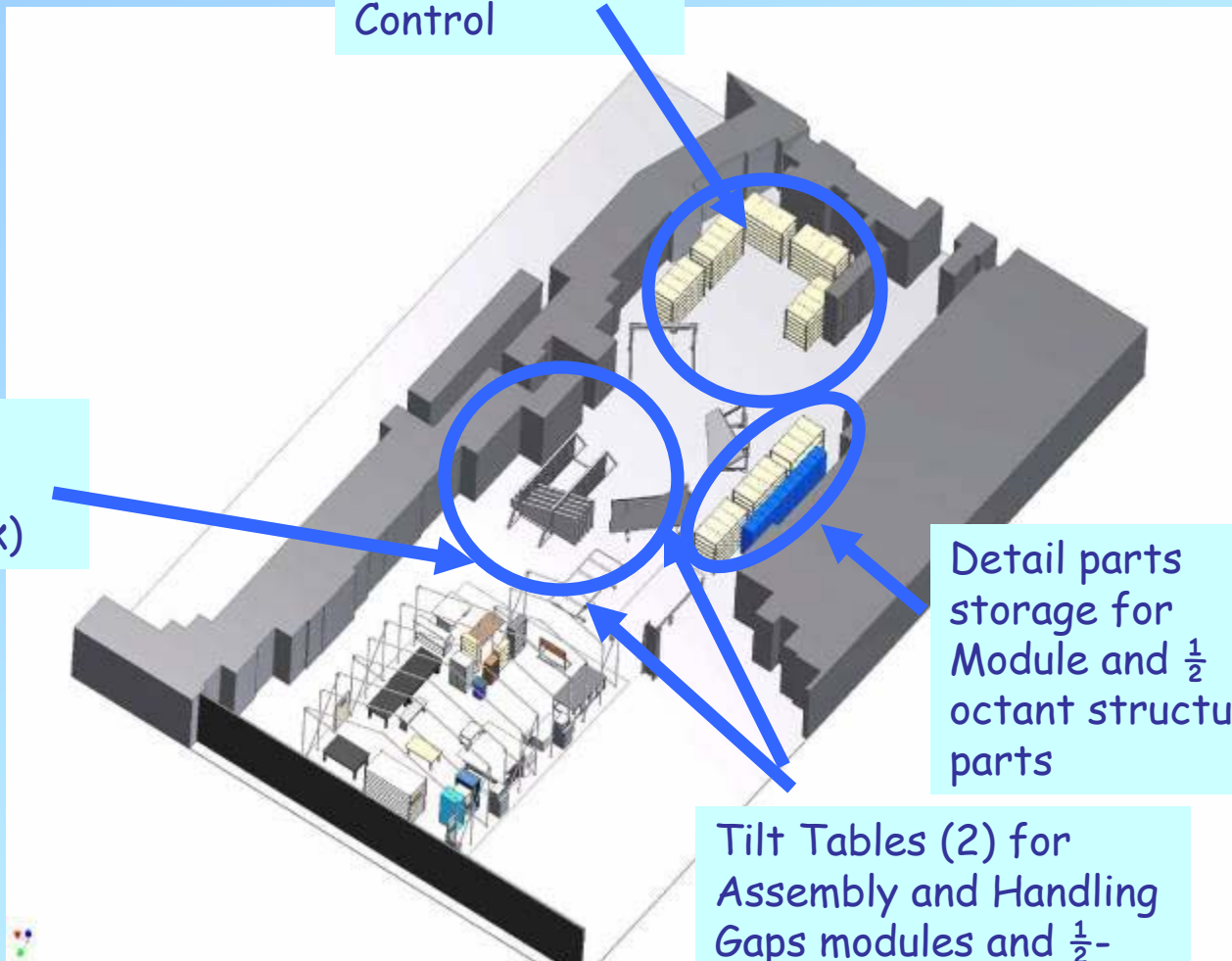
RPC Factory

Burn-in
test stand
(bicycle rack)

Module and Gap
Storage with
humidity
Control

Detail parts
storage for
Module and $\frac{1}{2}$
octant structural
parts

Tilt Tables (2) for
Assembly and Handling
Gaps modules and $\frac{1}{2}$ -
octants

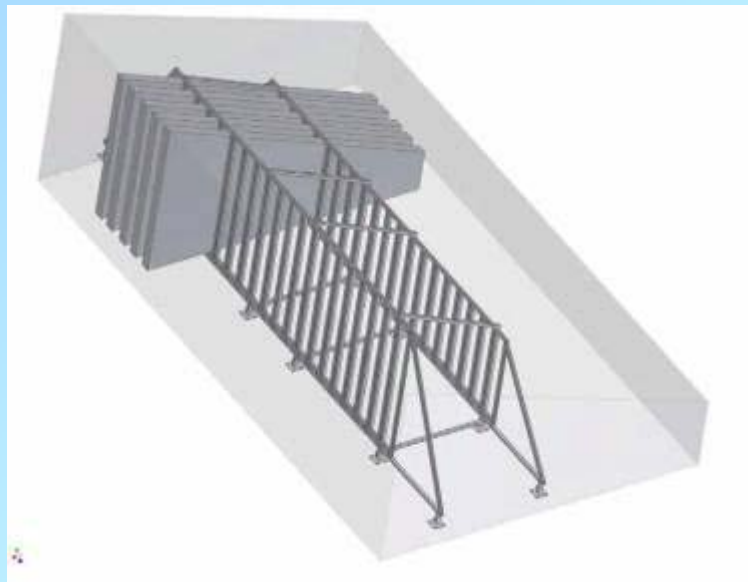


Dark Current Test Stand under construction



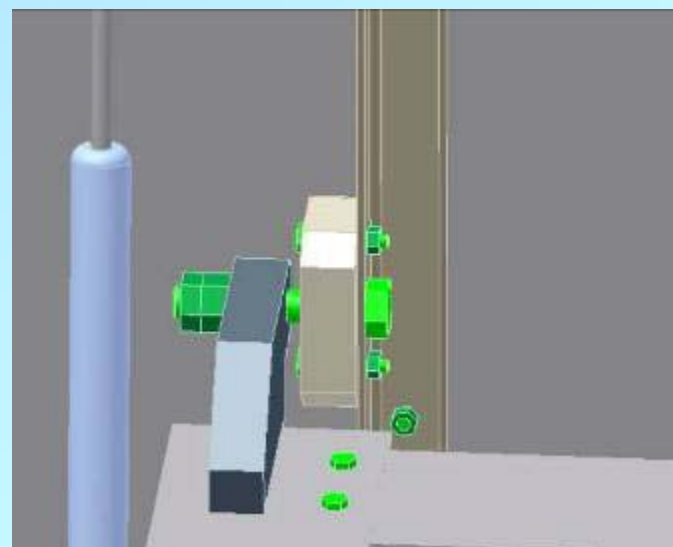
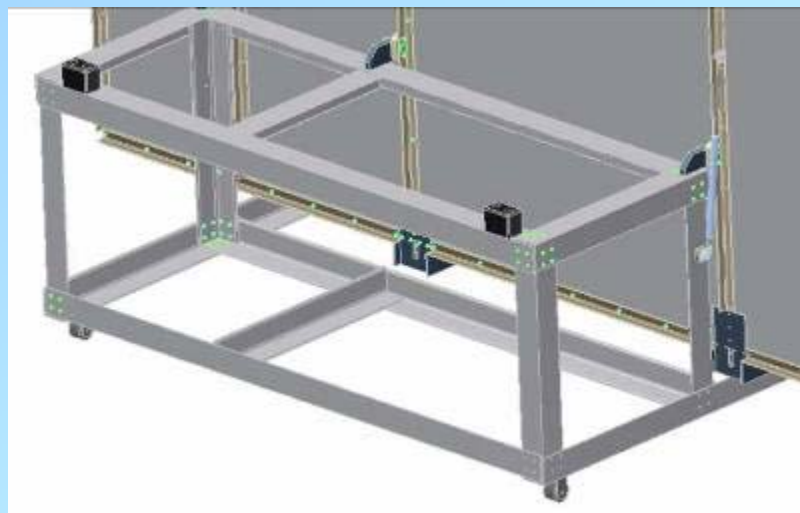
Also working on:

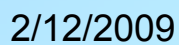
- a burn-in test stand for $\frac{1}{2}$ octants



- additional storage for gaps modules and structural detail parts
- transport table/cart

Half-Octant Assembly Tilt Table





Shutdown '09 Major tasks (expect 5 month shutdown):

- 2009 shutdown Begins April 10, or July 1, 2009 or July 15 or ?????
- End run, remove wall, MuID collars down, EC to AH (3 weeks)
- Install Station 1 South scaffolding (1 week)
- Install Station 2/3 scaffolding (2 weeks)
- PC1 East repair (4 weeks)
- Install stations 1, 2 and 3 south MuTrigger FEE's (12 weeks)
- MuTr decapacitations: station 3 south (3 weeks)
- RPC Station 3 North (12 weeks)
- Prep for future upgrades/existing equipment maintenance & Repair (as necessary)

Safety, Security, etc.

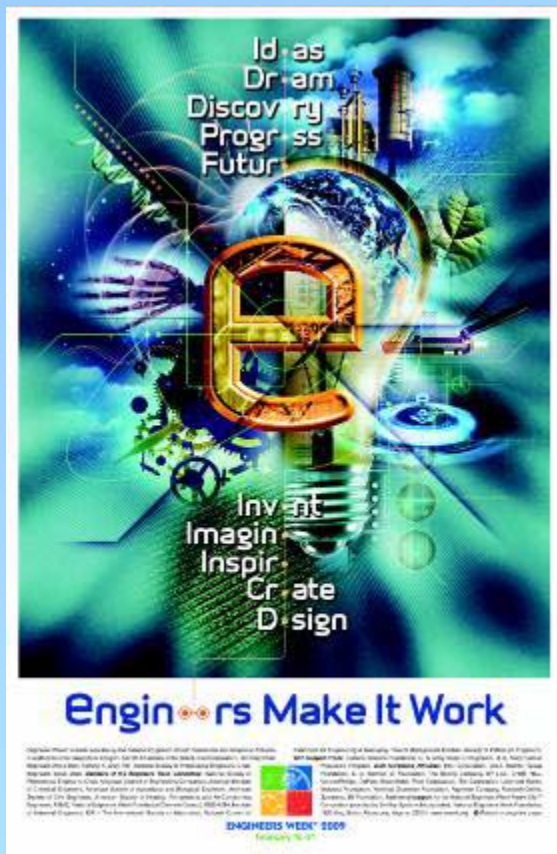
1. EMS/OSH Audit Coming in February (ISO 14001) and (OSHAS 18001)

Independent contractors to audit training records and observe work in the field

2. PHENIX Annual Safety Review Action Items:

- Provide updated sweep procedures (Sampson Feb 4, 2009) *This is a C-A issue.*
- Settle the CM magnet ladder railings (~~Lynch~~, ~~Pearson~~ Phillips Feb 4, 2009) *Don and Dave to resolve*
- Carry out the pink sheeting of all racks. (Haggerty / Giannotti Feb 1, 2009) *Done*
- Carry out the Blue Sheeting (CAS, Phillips Feb 1, 2009) *Done*
- Provide the new flammable gases leak rates (Pisani, Feb 1, 2009) *Done*
- Move the HBD 24 V power supply from the HV protection relay rack to the adjacent rack that has heat and smoke protection. (Boose Feb 1, 2009) *Done*
- Update the PHENIX ECR. (Van Essendelft Feb 1, 2009) *This is a C-A issue.*
- Update the PHENIX work plan (Cirnigliaro Feb 1, 2009) *Done*
- Carry out a magnetic safety review and measure the magnetic field on the bridge platform (Cirnigliaro/ Phillips Feb 1, 2009) *This is a C-A issue.*
- A walk through of the PHENIX detector prior to flammable gas. (Makdisi / Etkin Feb 1, 2009) *Done.*
- Update the documented work procedures. (Lynch) *Ongoing*
- Establish trained PHENIX watch shifts. (O'Brien, Feb 1, 2009) *Done*
- Add HSSD to the 1008 Assembly Hall (Phillips/ Levesque Mar 1, 2009) *This is a C-A issue.*

Where To Find PHENIX Engineering Info



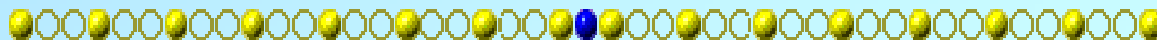
Next Week is National Engineers Week (and Monday is a holiday!) [Paul, Steve, Dave Phillips and I (any other Enggrs here?) will be expecting appropriate appreciation]. Next week is also:

Brotherhood Week
National Pedestrian Toll Week
Health Education Week
International Friendship Week
National Engineers Week
Pay Your Bills Week
National Condom Week
Home for Birds Week
National Cardiovascular Technologists Recognition Week.

For other days, months, and weeks go to:

<http://www.librarysupportstaff.com/4observing.html>

Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

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